



The BradControl™ IP67 I/O modules provide a reliable solution for connecting industrial controllers to I/O devices in harsh environments.

Ethernet Discrete I/O Module

IP67 R.J-I nxx® Format



Features

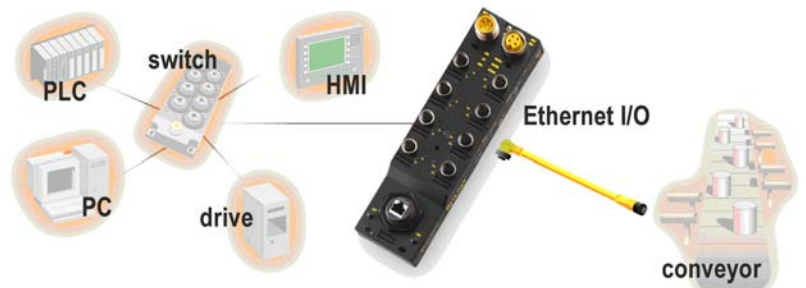
- Rated IP67 for harsh environments
- Designed for direct machine mount applications
- Standard threaded M12 connectors
- Supports PNP input devices
- Visible LEDs provide maintenance personnel with the ability to easily determine I/O, module and network status
- Supports the EtherNet/IP™ application layer
- Static or dynamic IP address configuration
- 10/100 Mbps auto-sensing capability
- Built-in web server for remote monitoring and configuration

Typical Applications

- Machine tool industry
- Material handling systems
- Filling & packaging
- Steel industry

I/O Systems for Harsh Environments

With advances in today's technology, Ethernet transmission performance can now achieve levels that are acceptable in all but the most extreme time-dependent applications. As a result it is now possible to use Ethernet down to the I/O level in many situations. The BradControl™ Ethernet I/O provide a reliable solution for connecting industrial controllers to I/O devices in harsh environments.



Contained in an IP67 rated housing, BradControl I/O modules can be machine mounted and are able to withstand areas where liquids, dust or vibration may be present. This makes them ideally suited for many applications including material handling equipment and automated assembly machinery.

Advanced network features such as 10/100 Mbps auto-sensing, web server capabilities and a flexible IP address setup method, make configuration and operation simple. Following traditional industrial fieldbus practices, standard M12 connectors from sensing devices or actuators plug directly into the I/O module. An environmentally sealed IP67 connection between the I/O module and the Ethernet network is created using the RJ-Lnx connection system built into the BradControl Ethernet I/O module.

Ethernet I/O Module



LED Indicators

Auxiliary Power (AUX Power):

Green – auxiliary power present

Red – reverse polarity

Off – auxiliary power not connected

Network Status (NET Status):

Green – CIP connections

Flash green – no connection

Flash red – connection time-out

Red – duplicate IP address

Flash red/green – self test

Off – no power, no IP address

I/O Module Status (MOD Status):

Green – operational

Flash green – standby

Flash red – minor fault

Red – major fault

Flash red/green – self test

Off – no power

Input / Output (Ix / Ox):

Yellow – input/output on

Red – input/output fault

Off – input/output off

Ethernet Link (LNK):

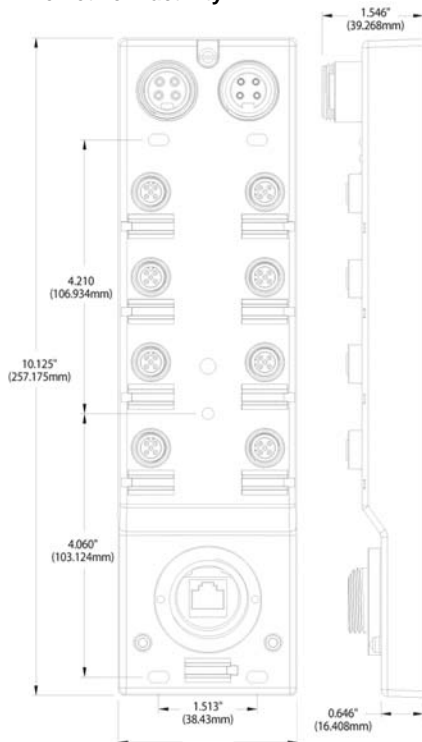
Red – link established

Off – no link

Ethernet Activity (ACT):

Flashing red – network activity

Off – no network activity



Technical Information

I/O Configurations	8 inputs / 8 outputs
I/O Connectors	5-pole female M12 connectors
Bus Connectors	RJ-Lnxx [®] IP67 industrial female receptacle
Power Connectors	Power in : male Mini-Change [®] 4-pole Power out : female Mini-Change 4-pole
External Power Requirements	24 Vdc
Communications Rate	10/100 Mbps auto-sensing, auto-detecting, full duplex
Address Capabilities	BOOTP (default), DHCP, static
Input Type	Compatible with dry contact and PNP 3-wire switches. Electronic short circuit protection
Input Device Supply	100 mA per port at 25°C
Output Load Current	Max 1.0 A per channel, electronic short circuit protection
Maximum Switching Frequency	100 Hz
Housing Dimensions	69.9 x 257 x 39.3 mm (2.75 x 10.125 x 1.55 inches)
Mounting Dimensions	38.4 mm (1.51 inches) horizontal on centers 210 mm (8.27 inches) vertical on centers Center hole
Operating Temperature	0°C to 70°C (32°F to 158°F)
Storage Temperature	-40°C to 85°C (-40°F to 185°F)
RH Operating	5 to 95% non-condensing
Protection	IP67 according to IEC 60529, NEMA 6P
Vibration	MIL-STD-202F, method 204D, condition A
Mechanical Shock	MIL-STD-202F, method 213B, condition B
Thermal Shock	MIL-STD-1344A

Ordering Information

Part Number	Product Description
TEN-888-R18-05	8 port M12 – 8 inputs PNP / 8 sourcing outputs

Note : PNP references refer to the input device connecting to the I/O module.

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